

Type N M/F In/Out Coaxial RF Surge Protector, 125MHz - 1GHz, DC Block, 375W, 20kA, Blocking Cap and Gas Tube

RF surge protector (also known as lightning arrester) FMSP1023 from Fairview Microwave utilizing a proprietary surge protection technology protects critical hardware from lightening events while maintaining the RF performance. This RF surge protector component is manufactured in a coaxial in-line design with wide operating frequency range. Optional weather proofing kit and copper cleaning kit are available for purchase separately. All Fairview Microwave RF surge protector products are available in stock with same day shipping.



Electrical Specifications

Surge Protector Type
 DC Handling

Blocking Cap and Gas Tube
 DC Block

| Description | Min | Typ | Max | Units |
|--|-----|-----------|-------|-------|
| Frequency Range | 125 | | 1,000 | MHz |
| Impedance | | 50 | | Ohms |
| VSWR | | | 1.1:1 | |
| Return Loss | | | 26 | dB |
| Insertion Loss | | | 0.1 | dB |
| Input Power, CW 375W @ 125MHz TO 220MHz 125W @ 220MHz TO 700MHz 50W @ 700MHz TO 1000MHz | | | 375 | Watts |
| Surge Current IEC 61000-4-5 8/20µs WAVEFORM | | | 20 | kA |
| Turn On Voltage | | 600 ±20 % | | Volts |
| Throughput Energy @ 3kA, 8/20µs WAVEFORM | | | 220 | µJ |

Features:

- Surge current of 20kA
- Max Power 375W
- Frequency range from 125 MHz to 1000 MHz
- N Male to N Female connectors
- VSWR 1.1:1
- Multi-strike capability
- CE & RoHS compliant

Applications:

- HF, UHF and VHF radios
- Ham radios
- Remote industrial monitoring

Mechanical Specifications

Configuration

Input Connector N Male
 Output Connector N Female

Environmental Specifications

Temperature

Operating Range -50 to 50 deg C
 Storage Range -55 to +85 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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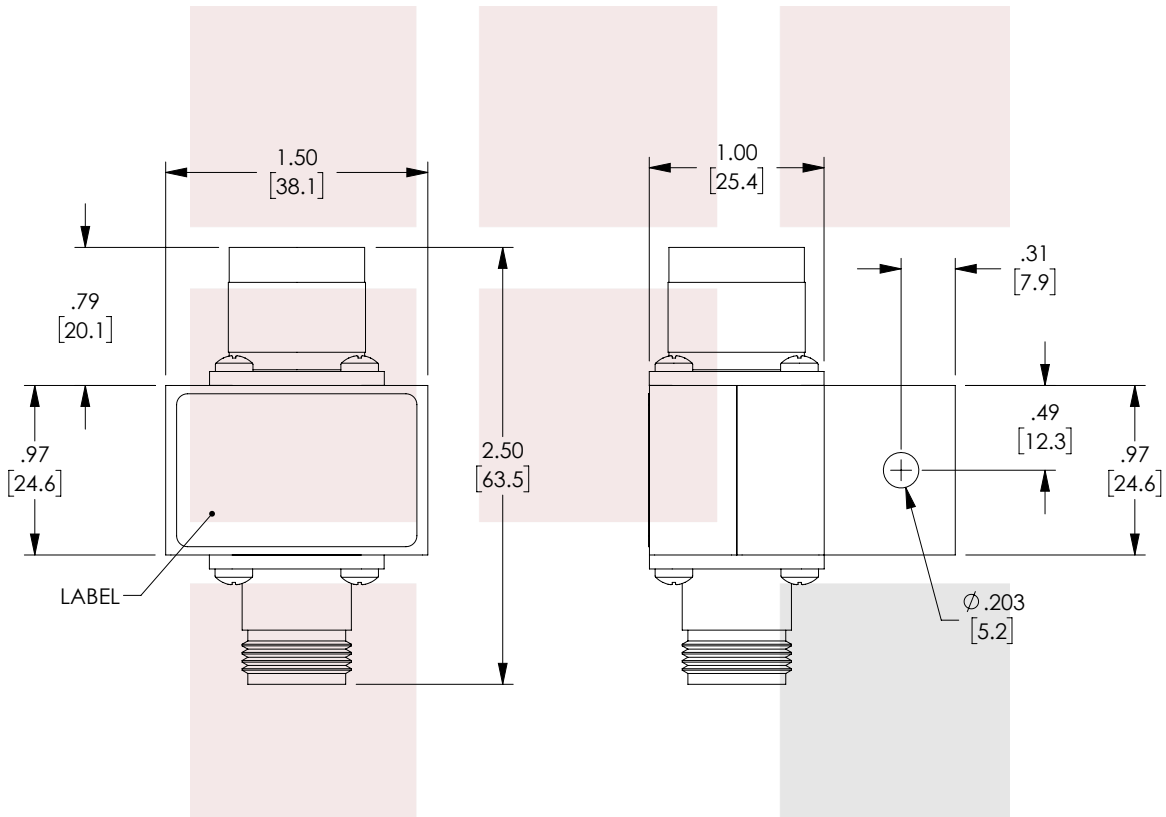
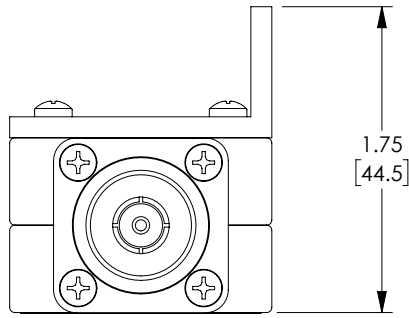
Type N M/F In/Out Coaxial RF Surge Protector, 125MHz - 1GHz, DC Block, 375W, 20kA, Blocking Cap and Gas Tube from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Type N M/F In/Out Coaxial RF Surge Protector, 125MHz - 1GHz, DC Block, 375W, 20kA, Blocking Cap and Gas Tube FMSP1023](#)

URL: <https://www.fairviewmicrowave.com/type-n-surge-protector-1ghz-blocking-cap-gas-tube-fmsp1023-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.





STANDARD TOLERANCES

- .X ±0.2
- .XX ±0.01
- .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

NOTES:

HARDWARE INCLUDED.

REGULATORY COMPLIANCE:

CE2011/65/EU(RoHS DIRECTIVE)

| | | | | | |
|--|--------|--|--------|------------------------------------|-----|
| | | <p>NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].</p> | | | |
| <p>TITLE Type N M/F In/Out Coaxial RF Surge Protector, 125MHz - 1GHz, DC Block, 375W, 20kA, Blocking Cap and Gas Tube</p> | | <p>DWG NO FMSP1023</p> | | <p>CAGE CODE 3FKR5</p> | |
| CAD FILE | 3/9/18 | SHEET | 1 OF 1 | SCALE | N/A |
| | | SIZE | A | XXXX | |